

A CDI Company



Michigan 2013 Annual Spring Emerging 911 Technology Forum

NG911 Specifications for Equipment RFPs

Overview

Today's Topics

NG9-1-1 Defined	Equipment
i3 Defined	Equipment Specifications
Why Change	Maintenance Agreements
What Does it Do	Service Level Agreements
How to Build	Training



NG9-1-1 Defined

- An open architecture, interoperable network that enables E9-1-1 requests for service from any networked communication device
- > Deliver voice and data
- > Receive and retrieve information
- > Transfer voice and data
- > Enable information sharing



i3 Defined

- > i3 is a collection of NENA Standards
- > Hardware
- > Software
- > Data
- > Security
- **Policies**



Why Change?

- Public use of technology
 - Cell Phones
 - VoIP
 - Text Messaging
- > Interconnecting
 - PSAPs
 - Fire, Police
 - Healthcare



What Remains the Same?

You will see

- Controller
- Workstations
- > Telephones
- Call Logging Recorder
- Contracts
 - Services
 - Vendors
 - RFPs
- Connectivity

You will answer emergency calls



What Does it Do?

I do not care about definitions, planning or what you call it - - This is what it better do...

- Improve public safety
- Make a call takers job easier
- Make responding quicker, better and more efficient
- Break down boundaries and silos of critical information
- Enable the seamless exchange of information
- Provide better service to the public



How to Build

Building Blocks

- > Planning
- > Network
- > Equipment
- > Data
- **Policies**
- > Training



Planning

- A. Know what you have
- B. Know your goalPlan to get from A to B
 - Inventory and Assess (A)
 - > Design and Procurement
 - Management and Maintenance
 - > Implementation (B)

Put words on paper



Equipment

- Controller
- Workstations
- > Telephones
- Call logging recorder
- > Firewalls
- > Routers, switches
- Master Clock
- > UPS
- Generator



Equipment Knowledge

- Know what you need
- Capabilities of each device
- Interoperability (with other devices)
- Maintenance Agreements
- Service Level Agreements



What do I need?

Obtain specifications from:

- > Previous RFI
- Your neighbor's contract
- Compliance with another authority
- > Ask



References

NENA Standards

- > 08-506 ESInet Design
 - Firewalls, Voice Quality, Network Specifications, SLAs
- ➤ 08-501 IP PSAP Interface
 - Voice Quality, Call Handling
- > 75-001 NG-SEC
 - Physical and Network
- ➤ 04-502 E9-1-1 PSAP CPE Site Characteristics Technical Information Document
 - Equipment Room and Electrical Contractor Checklists



Break from the Lists

A request for proposal (RFP) is a solicitation made, often through a bidding process, by an agency or company interested in procurement of a commodity, service or valuable asset, to potential suppliers to submit business proposals.

It is submitted early in the procurement cycle, either at the preliminary study, or procurement stage. The RFP process brings structure to the procurement decision and is meant to allow the risks and benefits to be identified clearly up front.



A Few Tips

Call recorder - where does it sit?

Controller - do you need a new one or will your current model support IP ports? Will your new one support CAMA ports during transition...is that functionality included in the price?

Be careful with your wording. Avoid words such as capable and support. If you need something - say - must include, must be compliant.



Maintenance Agreements

- > What is covered
- > Hours of operation
- **Escalation process**
- > Time to repair
- > Time to replace
- > Software and firmware upgrades
 - How are they received
 - Do they require an attached modem?
 - Include security requirements



Service Level Agreements

- > Performance
- > It is not broke, but it barely functions
- > Length of time you can tolerate being down
- Maintenance windows
 (you can say, must not interfere with call delivery)

The Little Things

Redundancy and failover – explain how you plan to never be down....

If you have to move to the backup equipment, how quickly will the vendor repair or replace the original equipment. What is the change over time, when one device fails, how quickly does the other come on line? Does it require any manual intervention?

Is your equipment properly grounded? Who is responsible for grounding? Not all network racks provide adequate grounding. Material composition and type of finish affect ground capabilities.

Voice quality - thresholds for jitter, latency and packet loss.



Training - Education

Does the contract include training for:

- > Call takers
- > Administrators
- > Stakeholders

Service providers



Summary

- > NG9-1-1 and i3
- Compliant vs capable
- > Plan
- > Equipment specifications
- ➤ Maintenance and SLA



Contacts and Questions

Questions

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